

FIG. 1

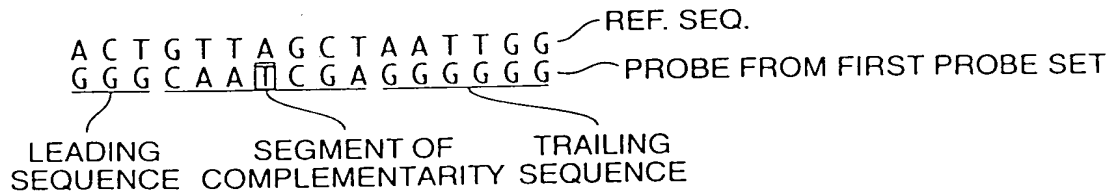


FIG. 2

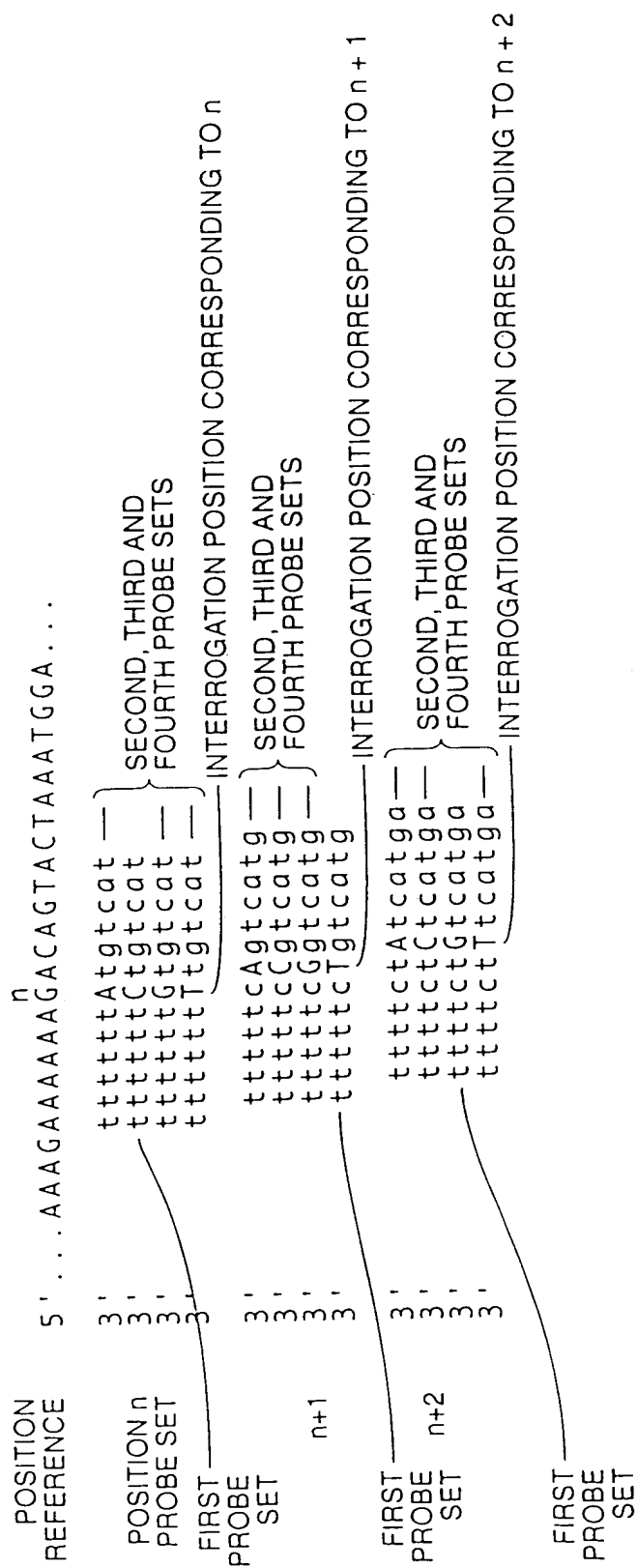
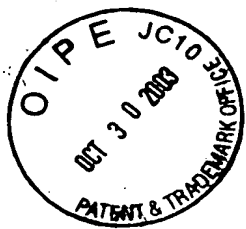
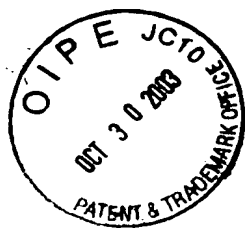


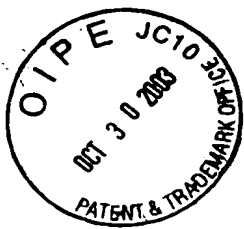
FIG. 3



POSITION REFERENCE	5' . . . AAAGAAAAGACAGTAAATGGA . . . ⁿ										
POSITION n PROBE SET	<table><tr><td>3'</td><td>ttttttAtgtcat</td><td>—</td><td rowspan="3">} PROBE SETS A, B & C</td></tr><tr><td>3'</td><td>ttttttGtgtcat</td><td>—</td></tr><tr><td>3'</td><td>ttttttTtgtcat</td><td>—</td></tr></table> INTERROGATION POSITION CORRESPONDING TO n	3'	ttttttAtgtcat	—	} PROBE SETS A, B & C	3'	ttttttGtgtcat	—	3'	ttttttTtgtcat	—
3'	ttttttAtgtcat	—	} PROBE SETS A, B & C								
3'	ttttttGtgtcat	—									
3'	ttttttTtgtcat	—									
$n+1$	<table><tr><td>3'</td><td>ttttttcAggtcatg</td><td>—</td><td rowspan="3">} PROBE SETS A, B & C</td></tr><tr><td>3'</td><td>ttttttcCgtcatg</td><td>—</td></tr><tr><td>3'</td><td>ttttttcGgtcatg</td><td>—</td></tr></table> INTERROGATION POSITION CORRESPONDING TO $n+1$	3'	ttttttcAggtcatg	—	} PROBE SETS A, B & C	3'	ttttttcCgtcatg	—	3'	ttttttcGgtcatg	—
3'	ttttttcAggtcatg	—	} PROBE SETS A, B & C								
3'	ttttttcCgtcatg	—									
3'	ttttttcGgtcatg	—									
$n+2$	<table><tr><td>3'</td><td>ttttctAtcatga</td><td>—</td><td rowspan="3">} PROBE SETS A, B & C</td></tr><tr><td>3'</td><td>ttttctCtcatga</td><td>—</td></tr><tr><td>3'</td><td>ttttctTtcatga</td><td>—</td></tr></table> INTERROGATION POSITION CORRESPONDING TO $n+2$	3'	ttttctAtcatga	—	} PROBE SETS A, B & C	3'	ttttctCtcatga	—	3'	ttttctTtcatga	—
3'	ttttctAtcatga	—	} PROBE SETS A, B & C								
3'	ttttctCtcatga	—									
3'	ttttctTtcatga	—									

FIG. 3B

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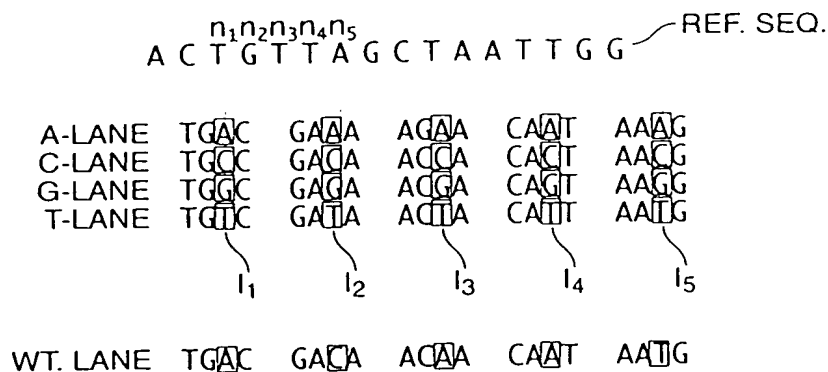


FIG. 4

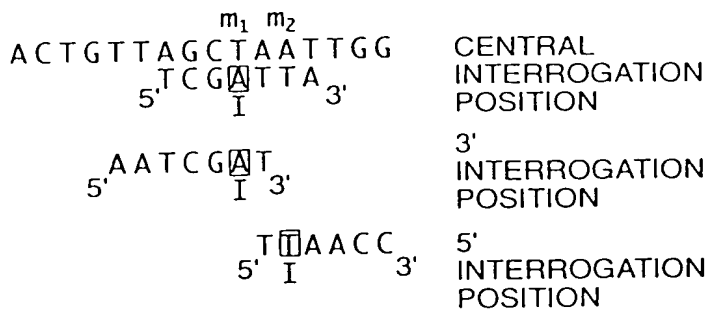


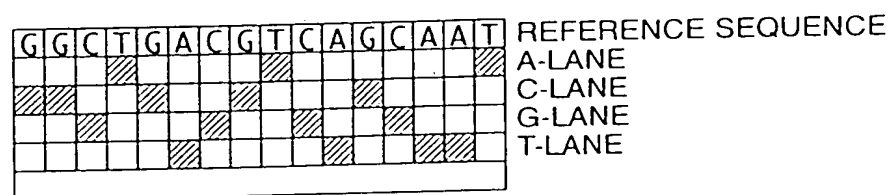
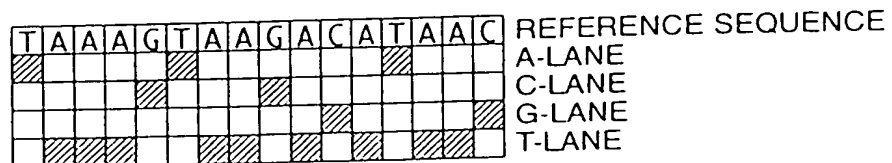
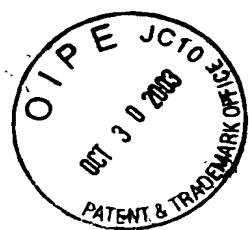
FIG. 4B

GGGXCCCTTAF

CCCA GGG
 CCCG GGG
 CCCG GGG
 CCCI GGG

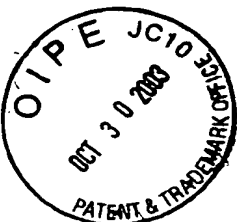
AGGGAAT
 CGGGAAT
 CGGGAAT
 TGGGAAT

FIG. 4C



3'-CCGACTACAGTCGTT
3'-CCGACTCCAGTCGTT
3'-CCGACTGCAGTCGTT
3'-CCGACTTCAGTCGTT

FIG. 5



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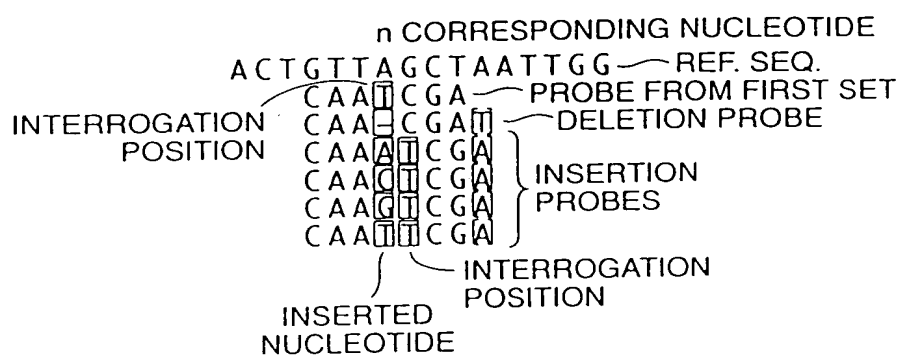
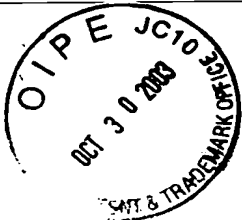


FIG. 6



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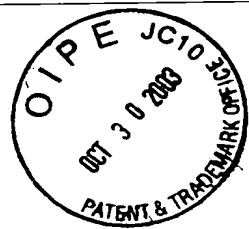
 n₁ n₂ n₃ — CORRESPONDING NUCLEOTIDES
A C T G T T A G C T A A T T G G — REF. SEQ.
C A T G A — PROBE FROM FIRST SET
 l₁ l₂ l₃ — INTERROGATION POSITIONS

C C A T C G A } CORRESPONDING PROBES
C G A T C G A } FROM SECOND, THIRD AND
C T A T C G A } FOURTH PROBE SETS
 l₁

C A A A C G A } CORRESPONDING PROBES
C A A C C G A } FROM FIFTH, SIXTH AND
C A A G C G A } SEVENTH PROBE SETS
 l₂

C A A T C A A } CORRESPONDING PROBES
C A A T C C A } FROM EIGHTH, NINTH AND
C A A T C T A } TENTH PROBE SETS
 l₃

FIG. 7



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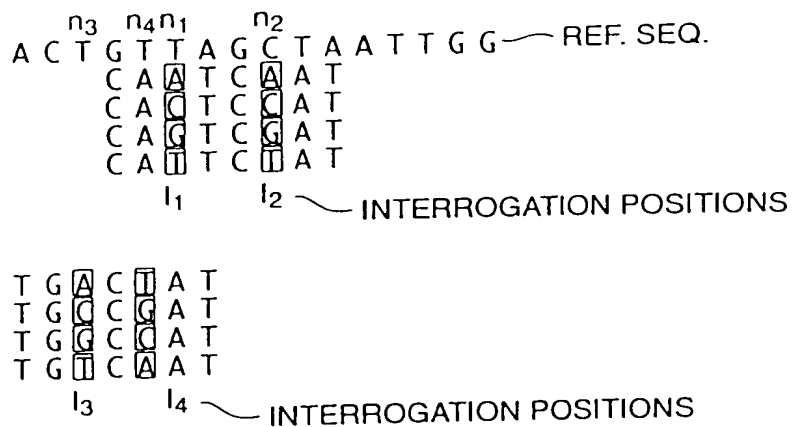


FIG. 8

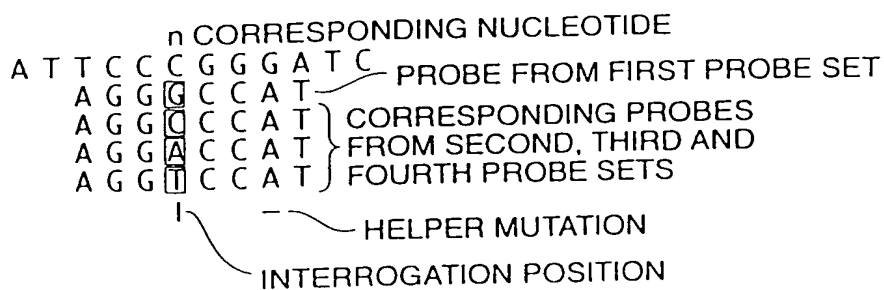
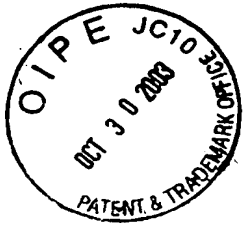
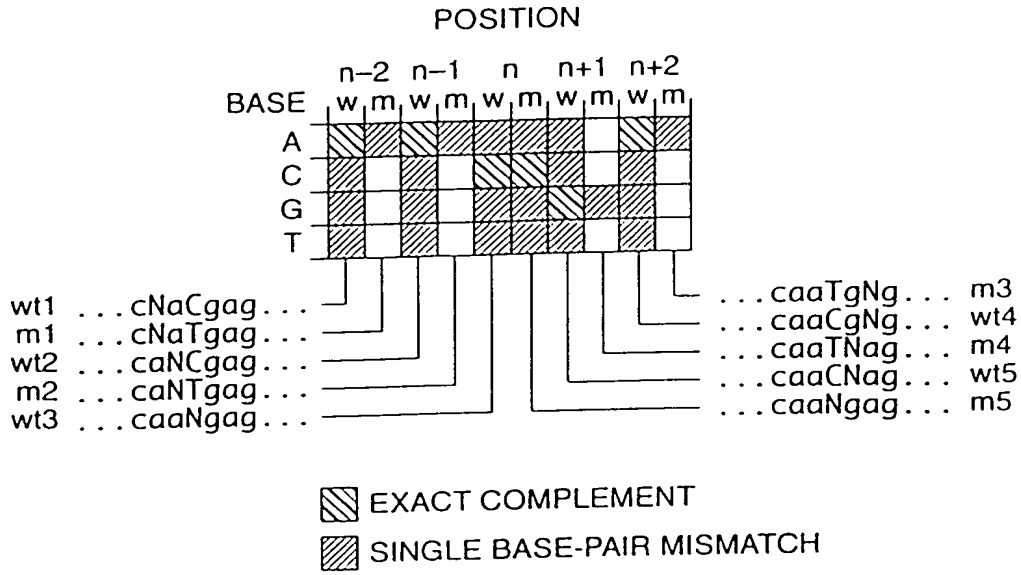


FIG. 9

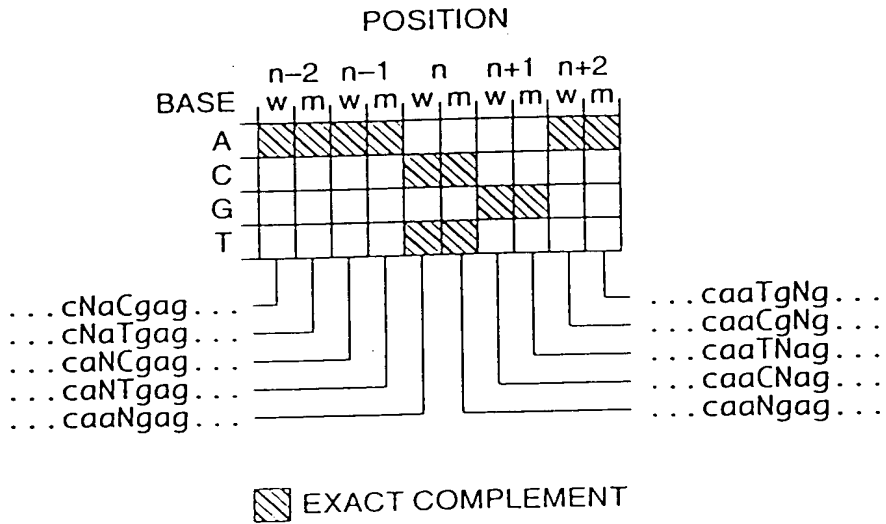


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WILD-TYPE SEQUENCE: 5' =AGGTCAACGAGCAA=3'
 MUTANT SEQUENCE: 5' =AGGTCAATGAGCAA=3'

FIG. 10



WILD-TYPE SEQUENCE: 5' =AGGTCAACGAGCAA=3'
 MUTANT SEQUENCE: 5' =AGGTCAATGAGCAA=3'

FIG. 11

FIG. 12A

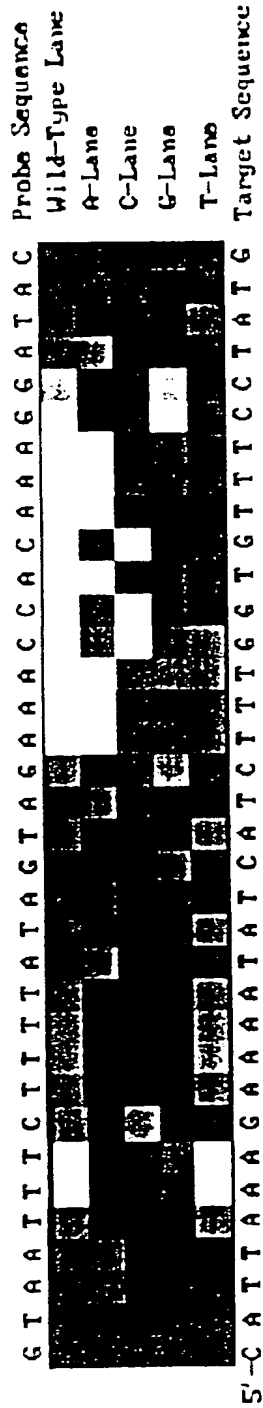
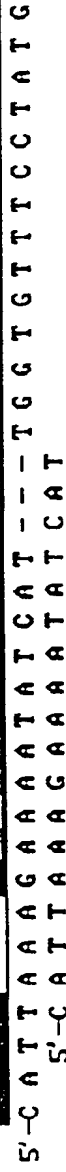


FIG. 12B



FIG. 12C



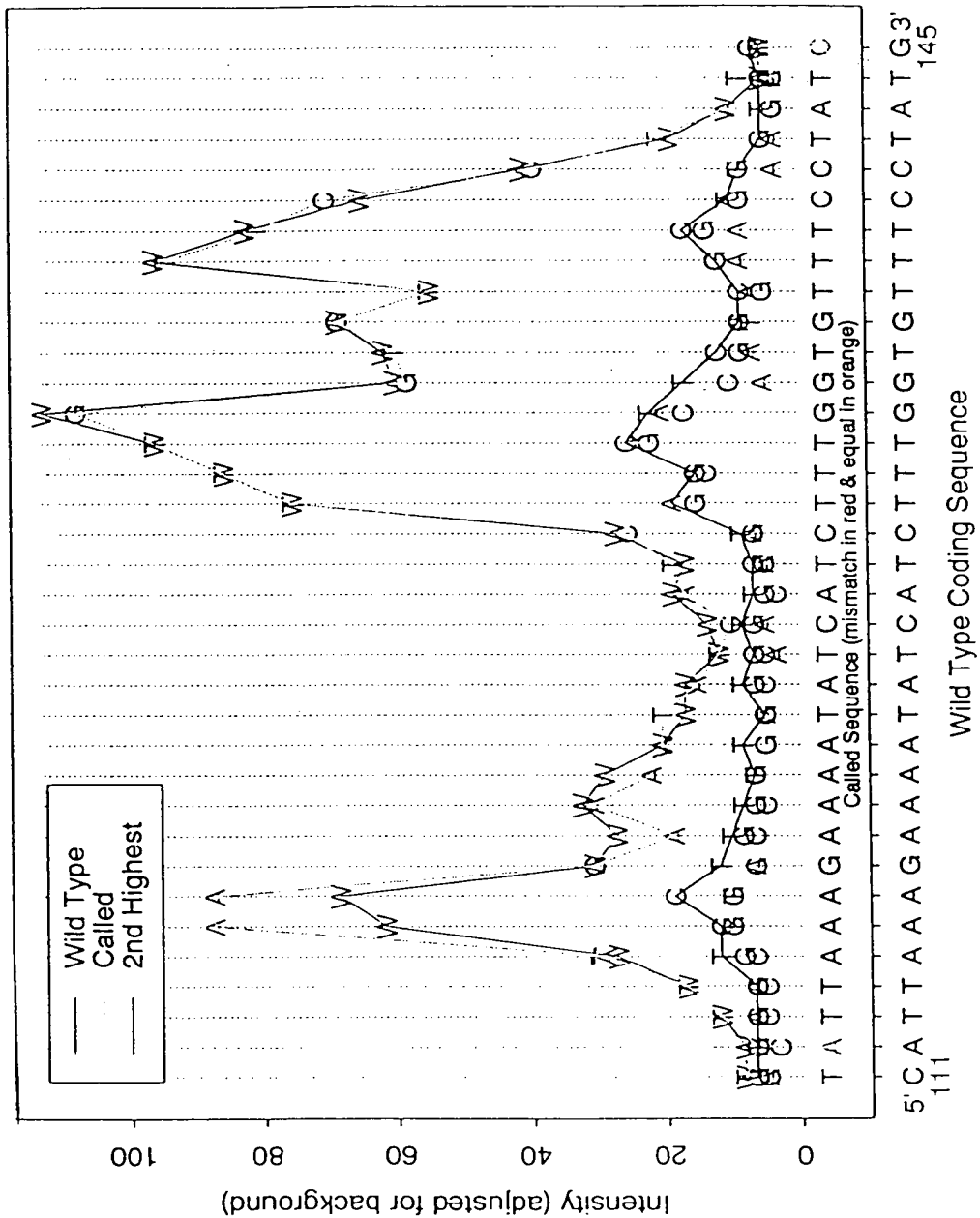


FIG. 13A

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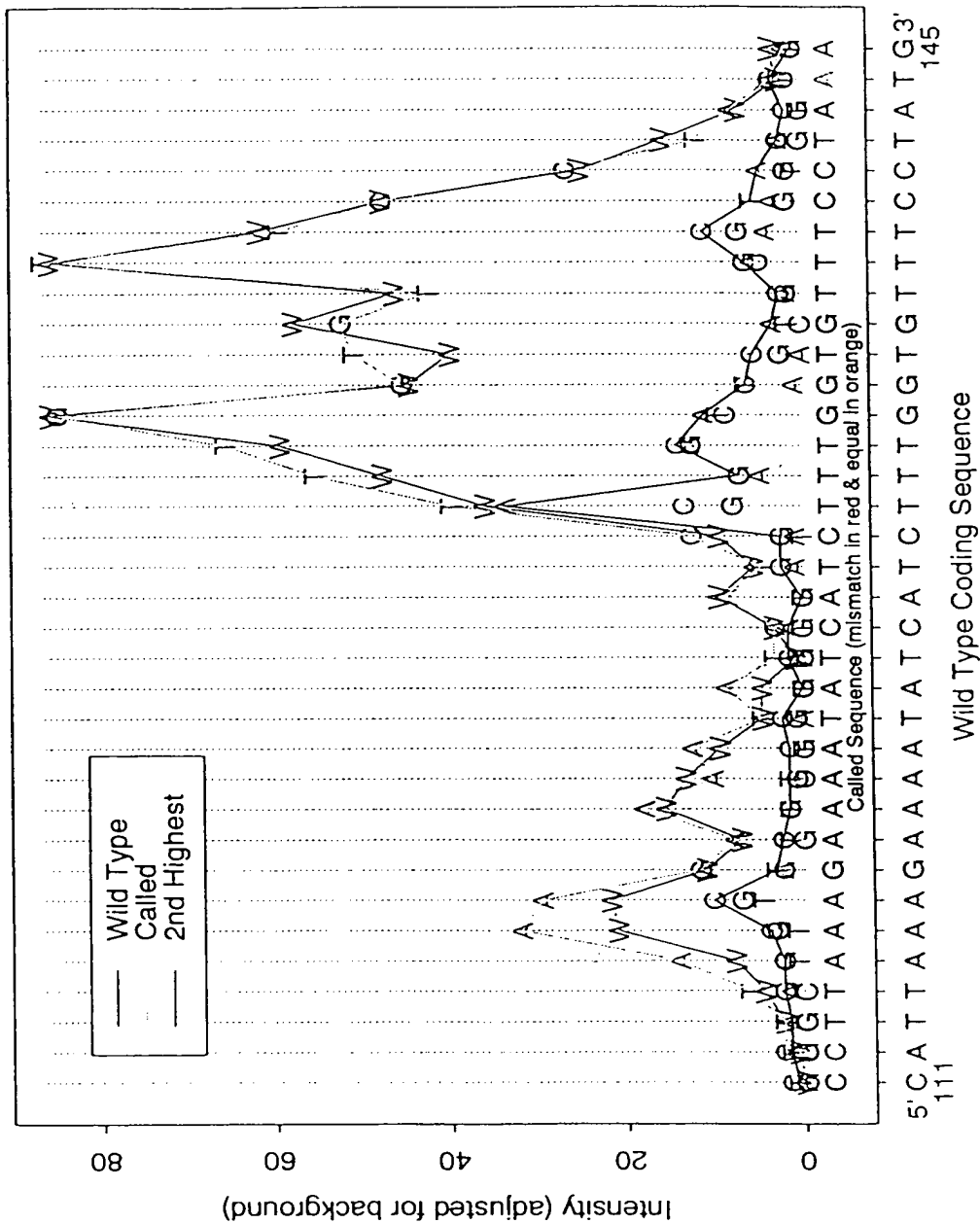


FIG. 13B

DEVIATION

NO. 1000000

YES/NO/1000000

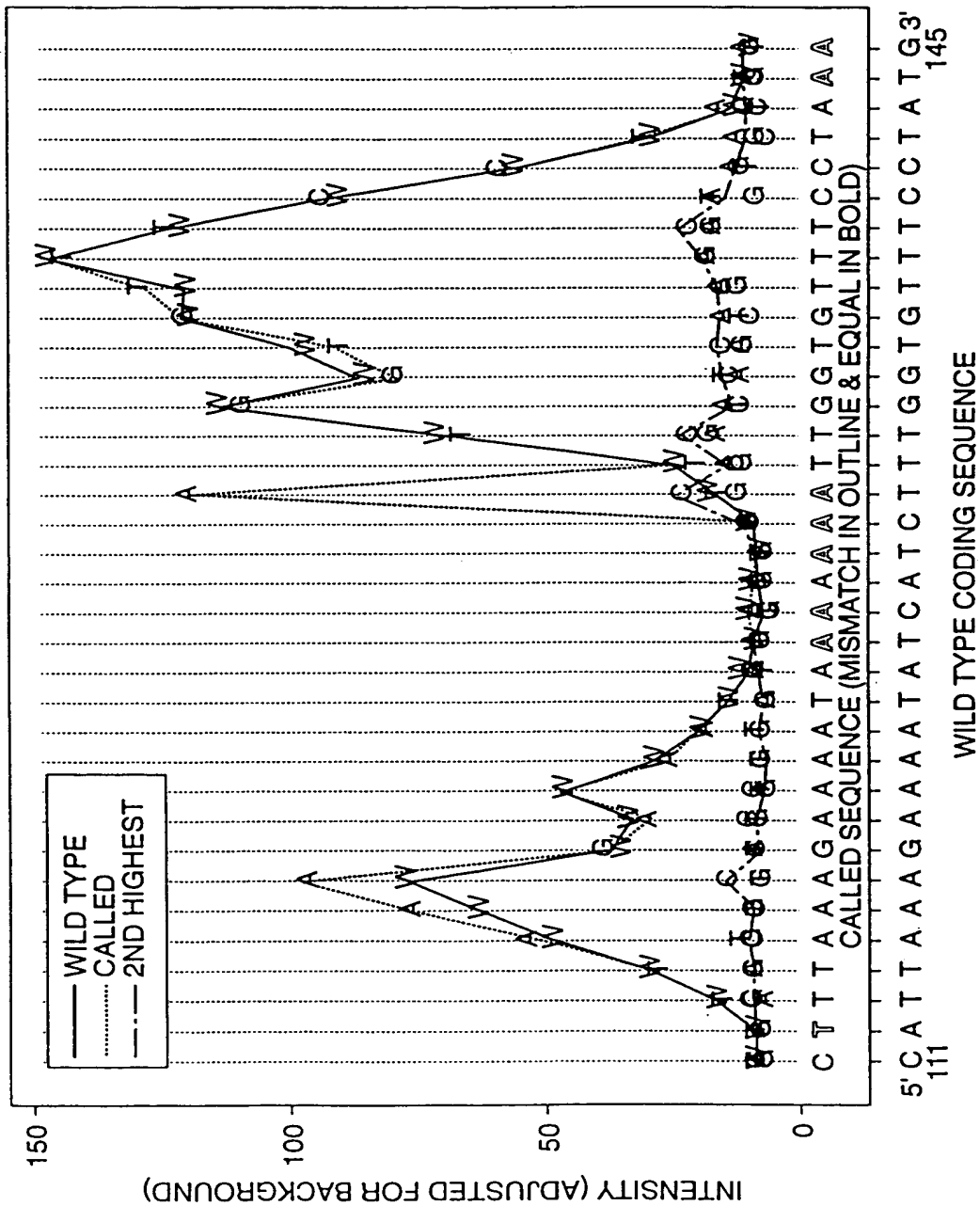


FIG. 13C

GENE
 1000
 1000

FIG. 14A

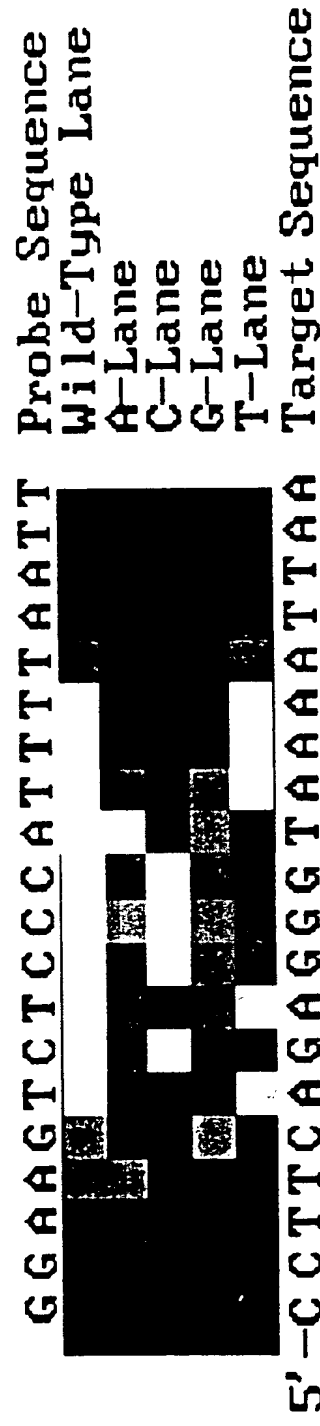


FIG. 14B

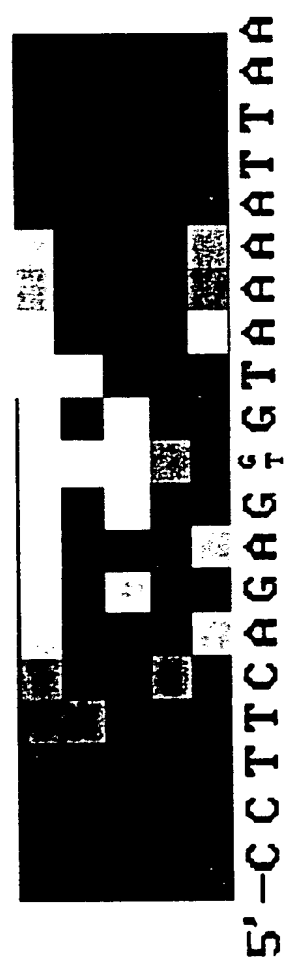
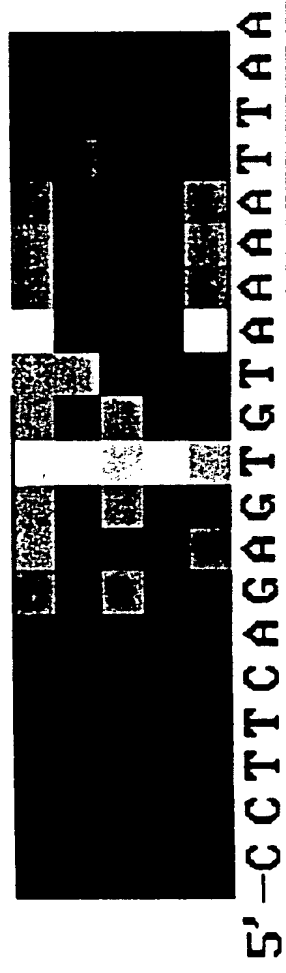


FIG. 14C





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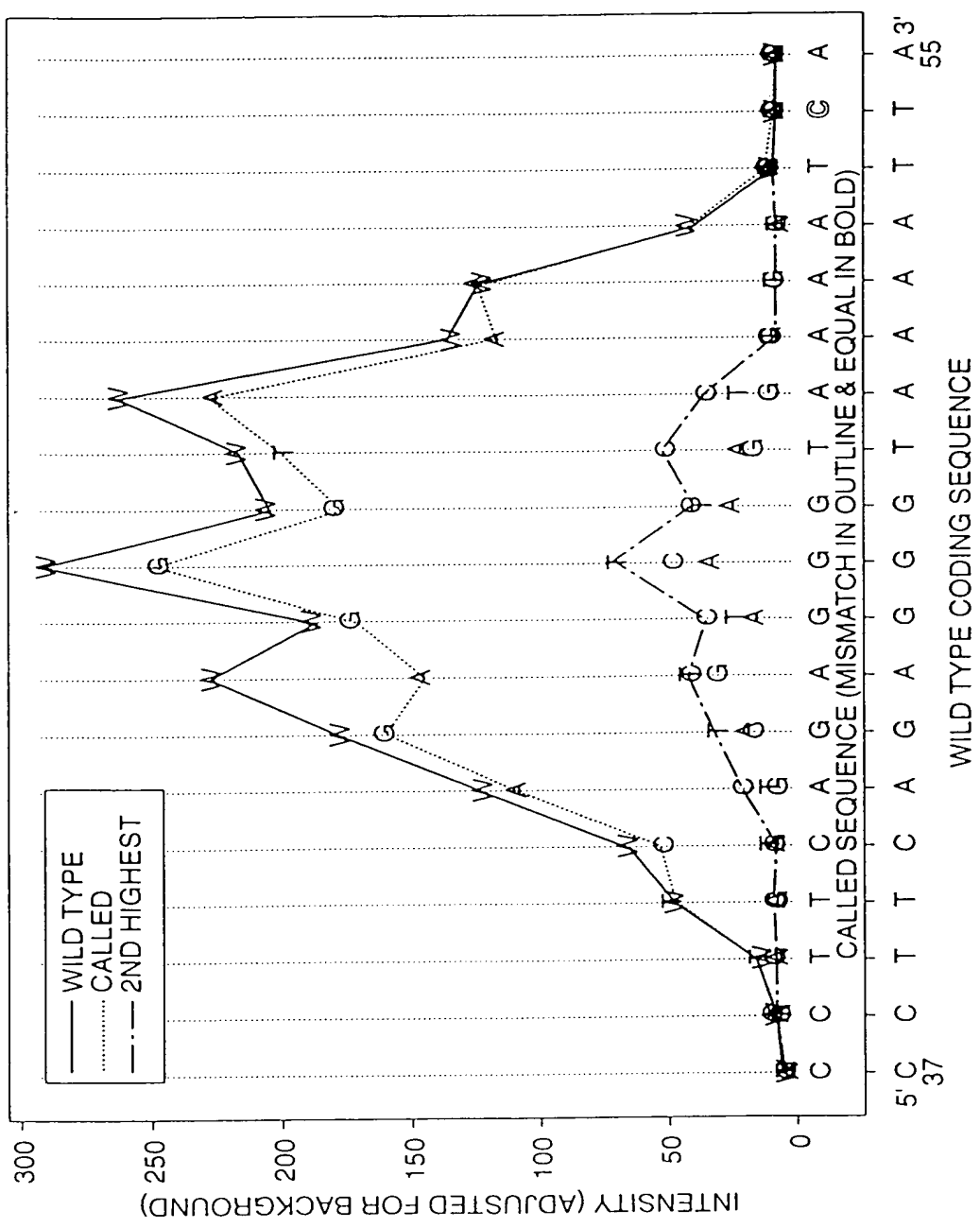


FIG. 15A

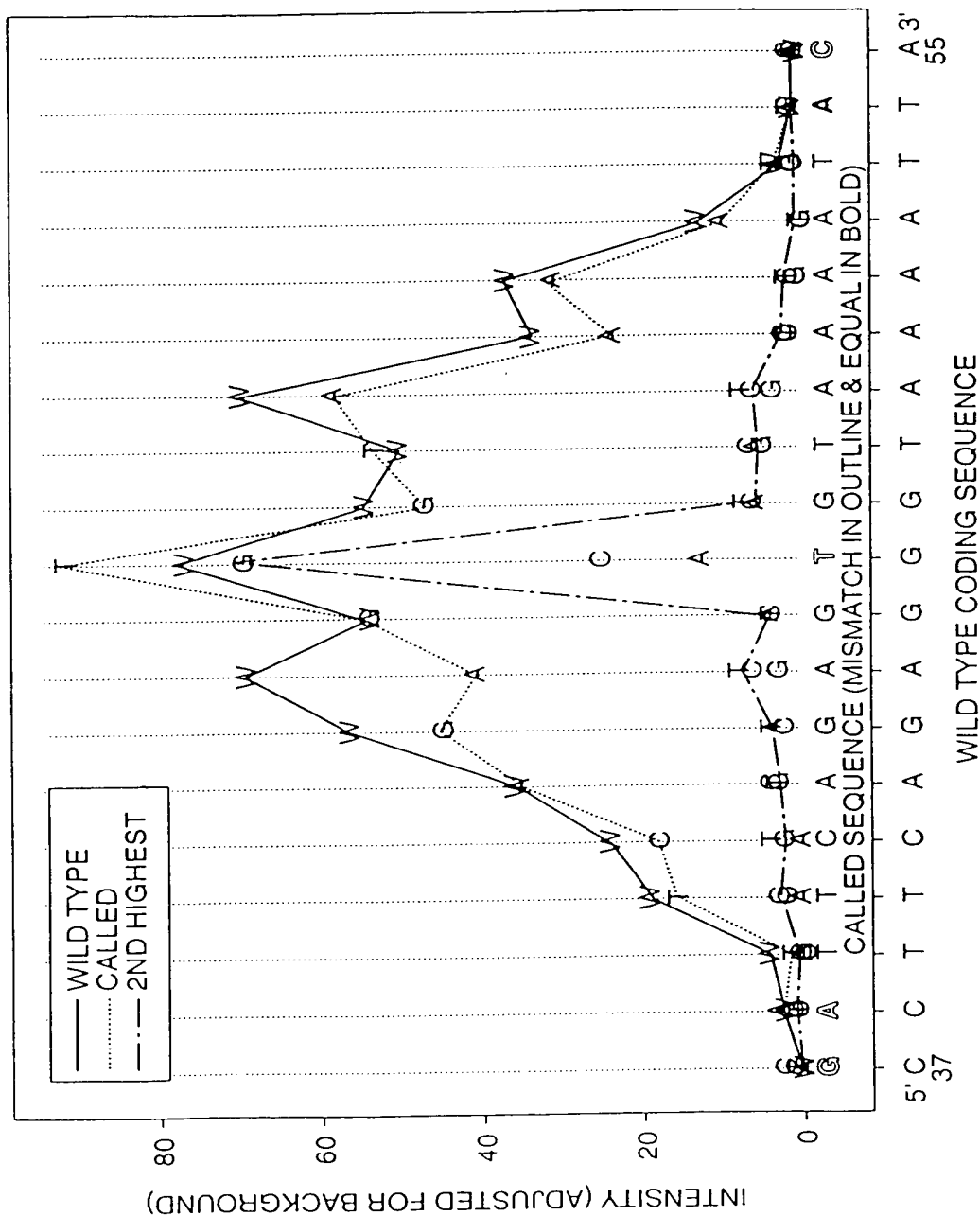


FIG. 15B

7347-130

100.000000

100.000000

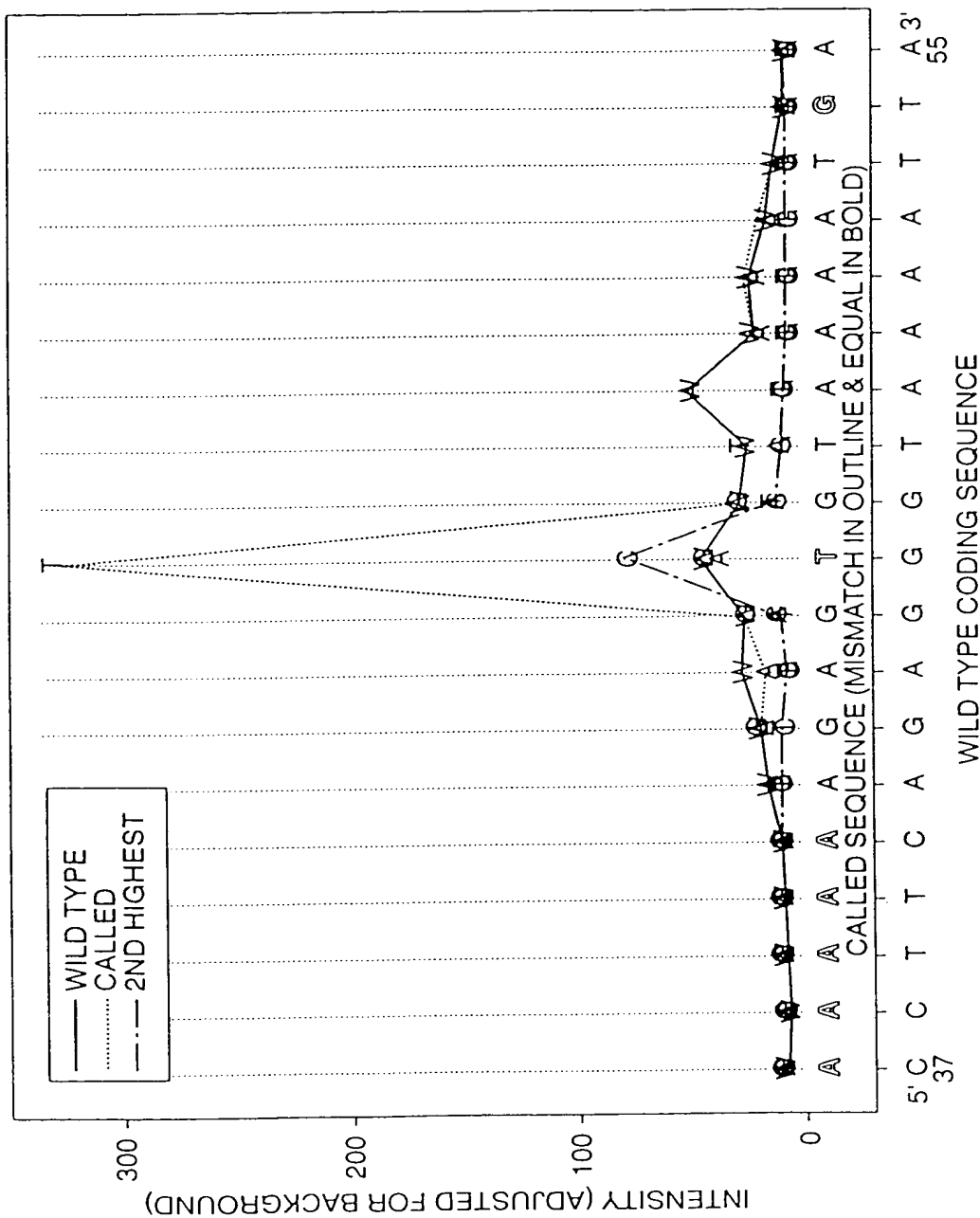


FIG. 15C

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FIG. 16A

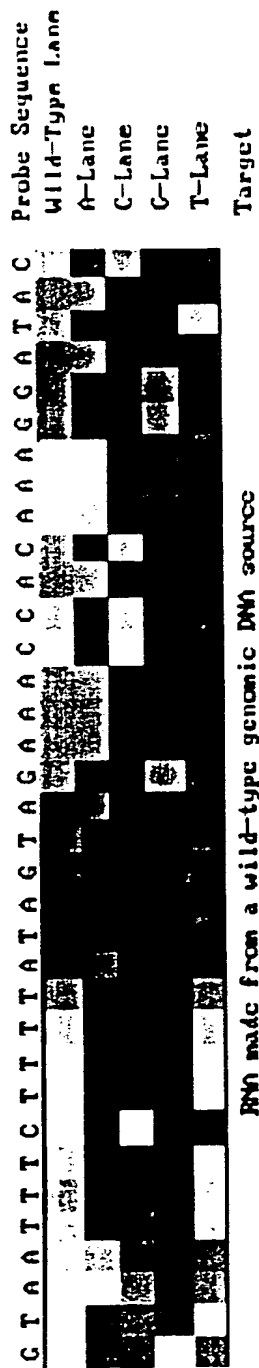
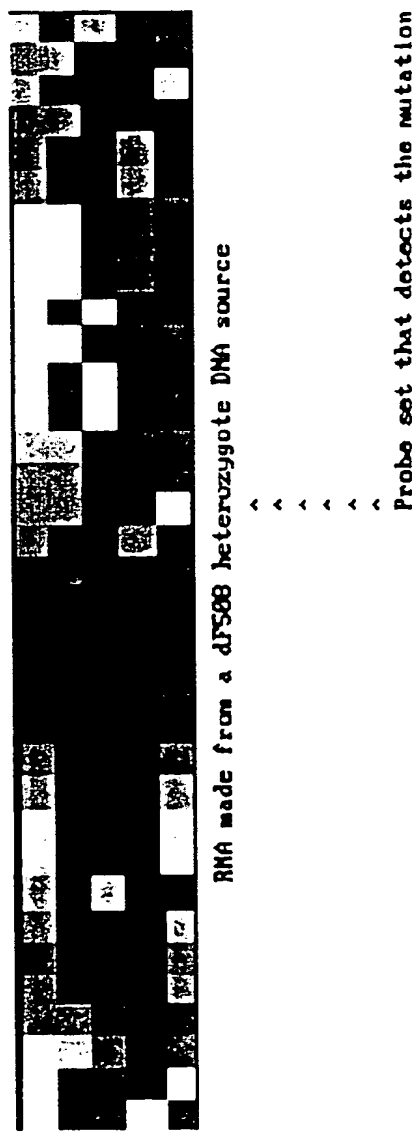


FIG. 16B



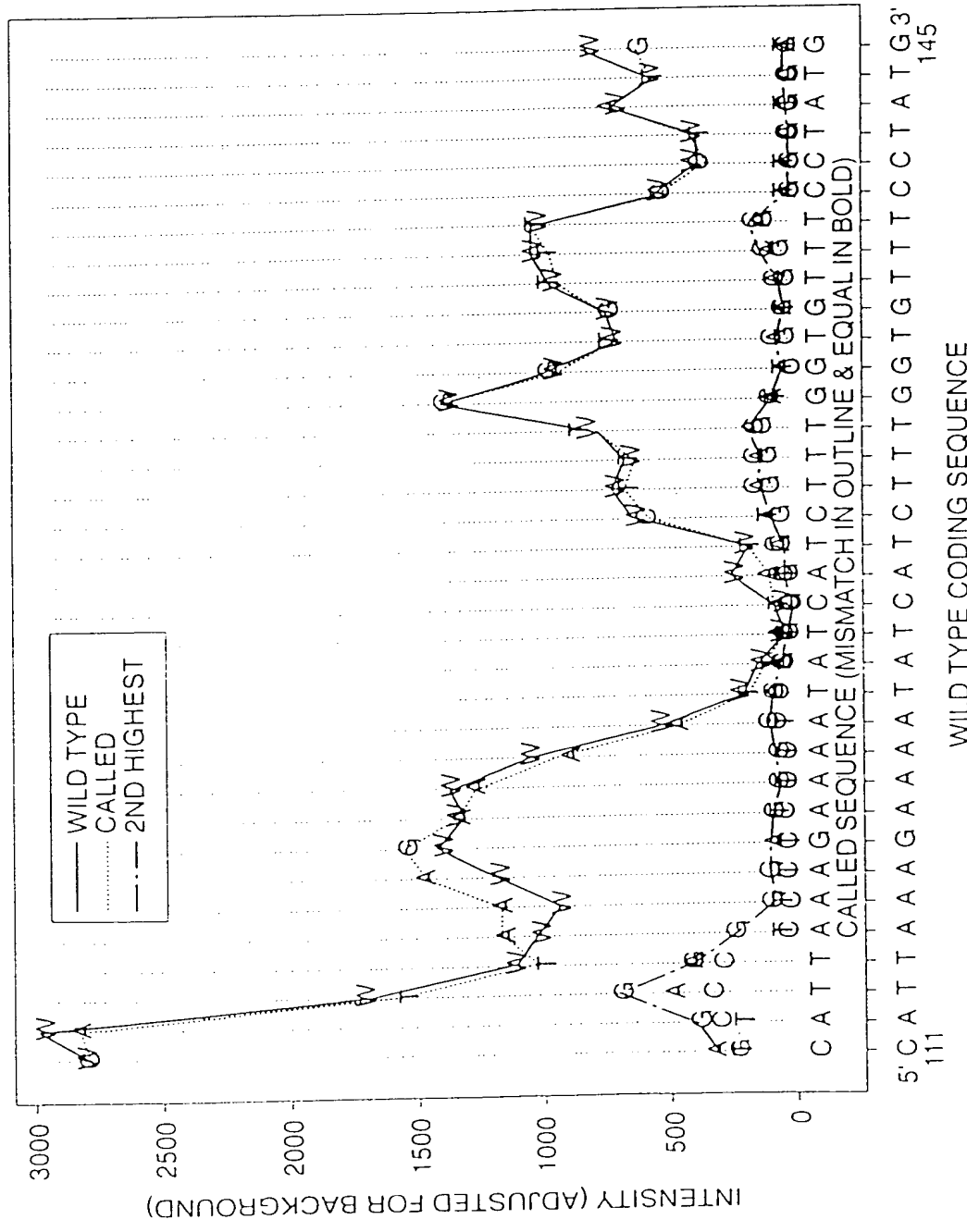


FIG. 17
(1 of 2)

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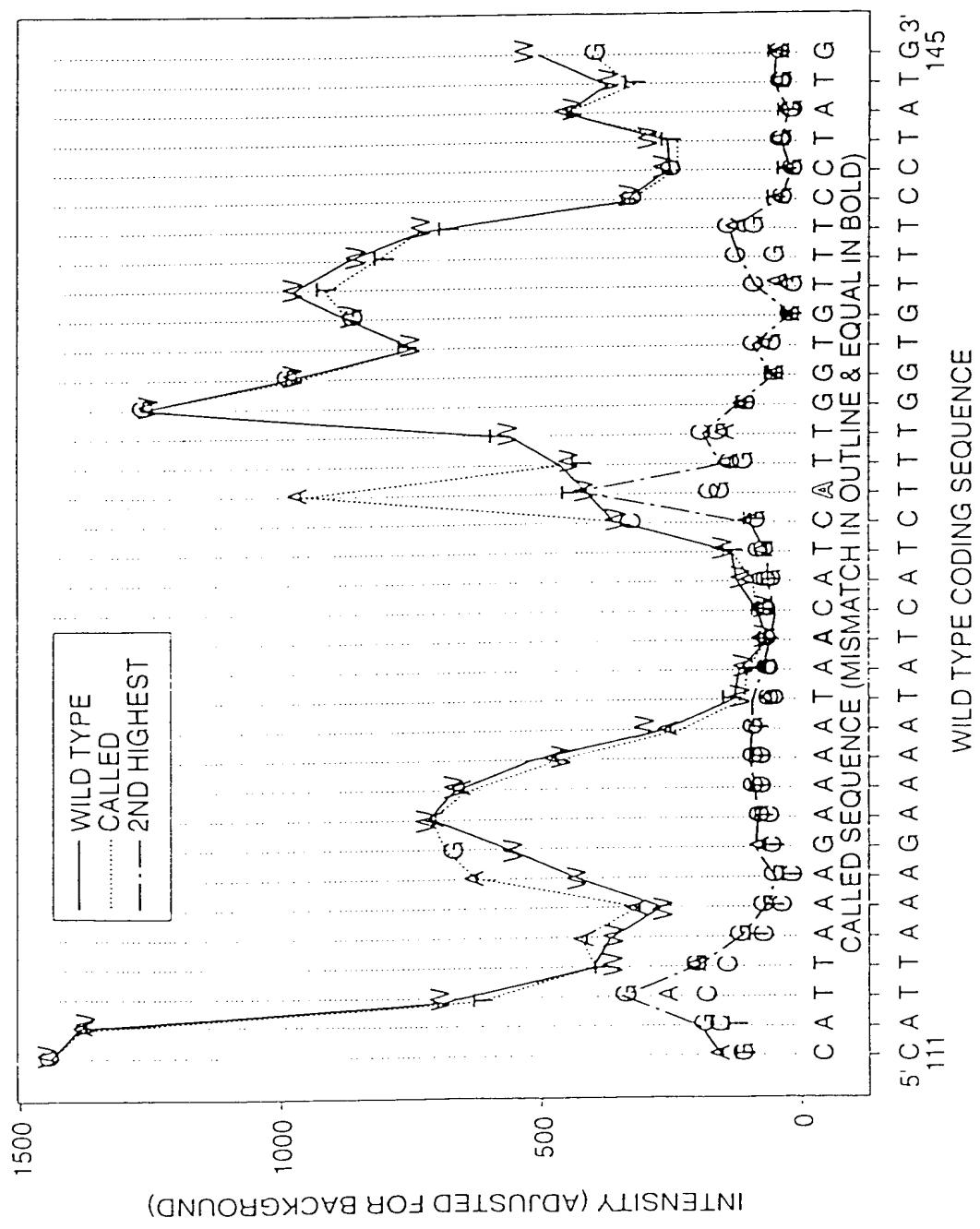
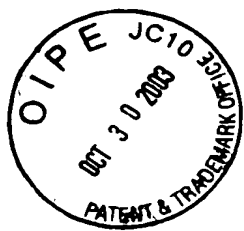


FIG. 17
 (2 of 2)

[illegible]

FIG. 18B



n-2		n-1		n		n+1		n+2	
w	m	w	m	w	m	w	m	w	m
A	A	A	A					A	A
				C	C				
						G	G		
				T	T				
R553X (C→T)									

FIG. 19A

GGTCA <u>A</u> CGAGCAAG		GGTCAATG <u>A</u> GCAAG
GGTCA <u>A</u> TGAGCAAG		GGTCAACG <u>A</u> GCAAG
GGTCA <u>A</u> CGAGCAAG		GGTCAATG <u>A</u> GCAAG
GGTCA <u>A</u> TGAGCAAG		GGTCAACG <u>A</u> GCAAG
GGTCAAC <u>G</u> AGCAAG		GGTCAATGAGCAAG
GGTCAATGAGCAAG		GGTCAACGAGCAAG

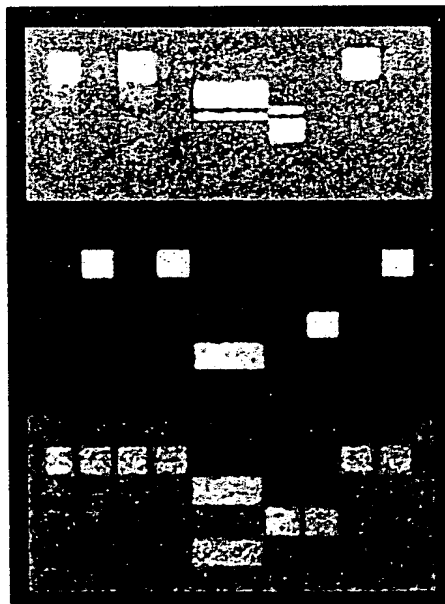
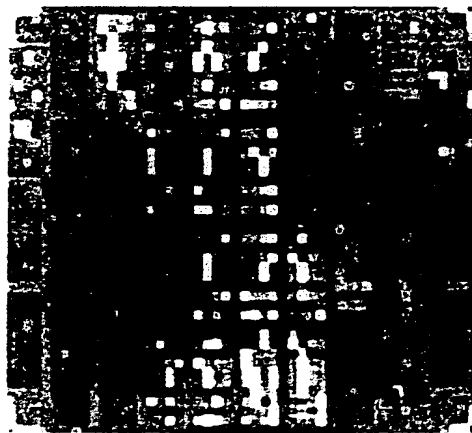


FIG. 19B

FIG. 19C

FIG. 19D



n-2	n-1	n	n+1	n+2
W	W	W	W	W
			T	T
	G	G	G	G
A	A	A		C
C	C			
G551D (G → A)				

n-2	n-1	n	n+1	n+2
W	W	W	W	W
		T	T	T
	G	G	G	G
A	A			
G480C (G → T)				

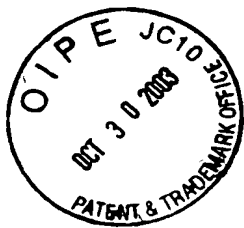
FIG. 20A



n-2	n-1	n	n+1	n+2
W	W	W	W	W
		T	T	
			G	G
A				
ΔF508 (Mutant)				

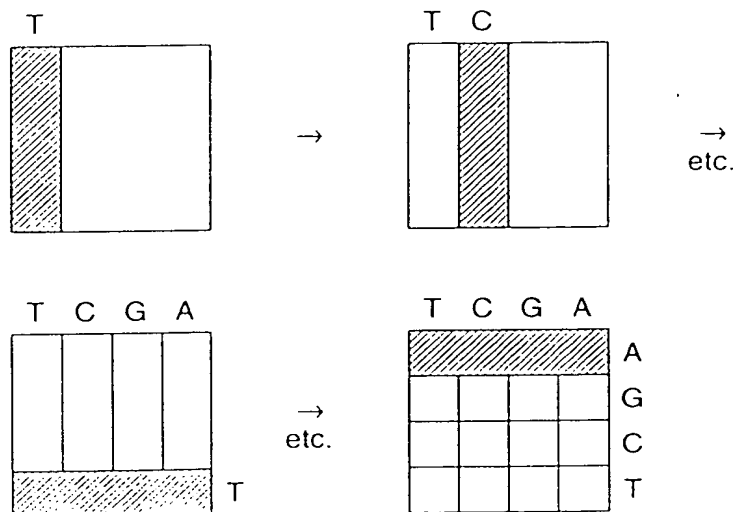
FIG. 20B





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DIMERS:



IN POLYNOMIAL NOTATION:

$$(T + C + A + G)^2 = \text{ALL DIMERS}$$

TRIMERS:

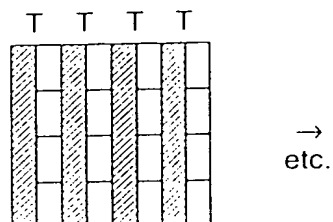


FIG. 23

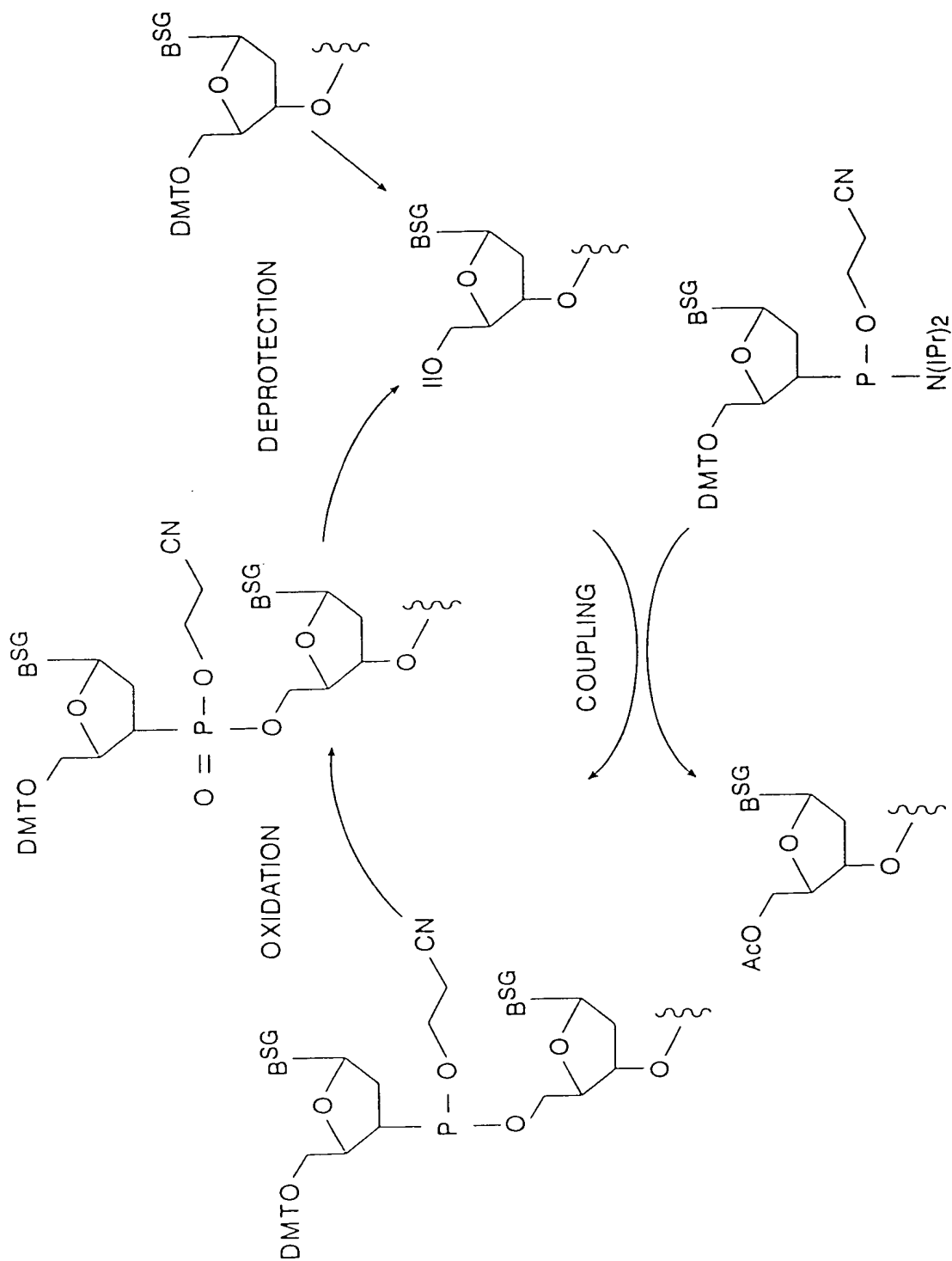
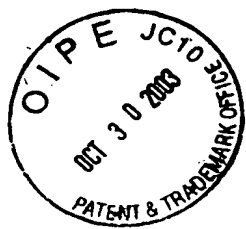


FIG. 24

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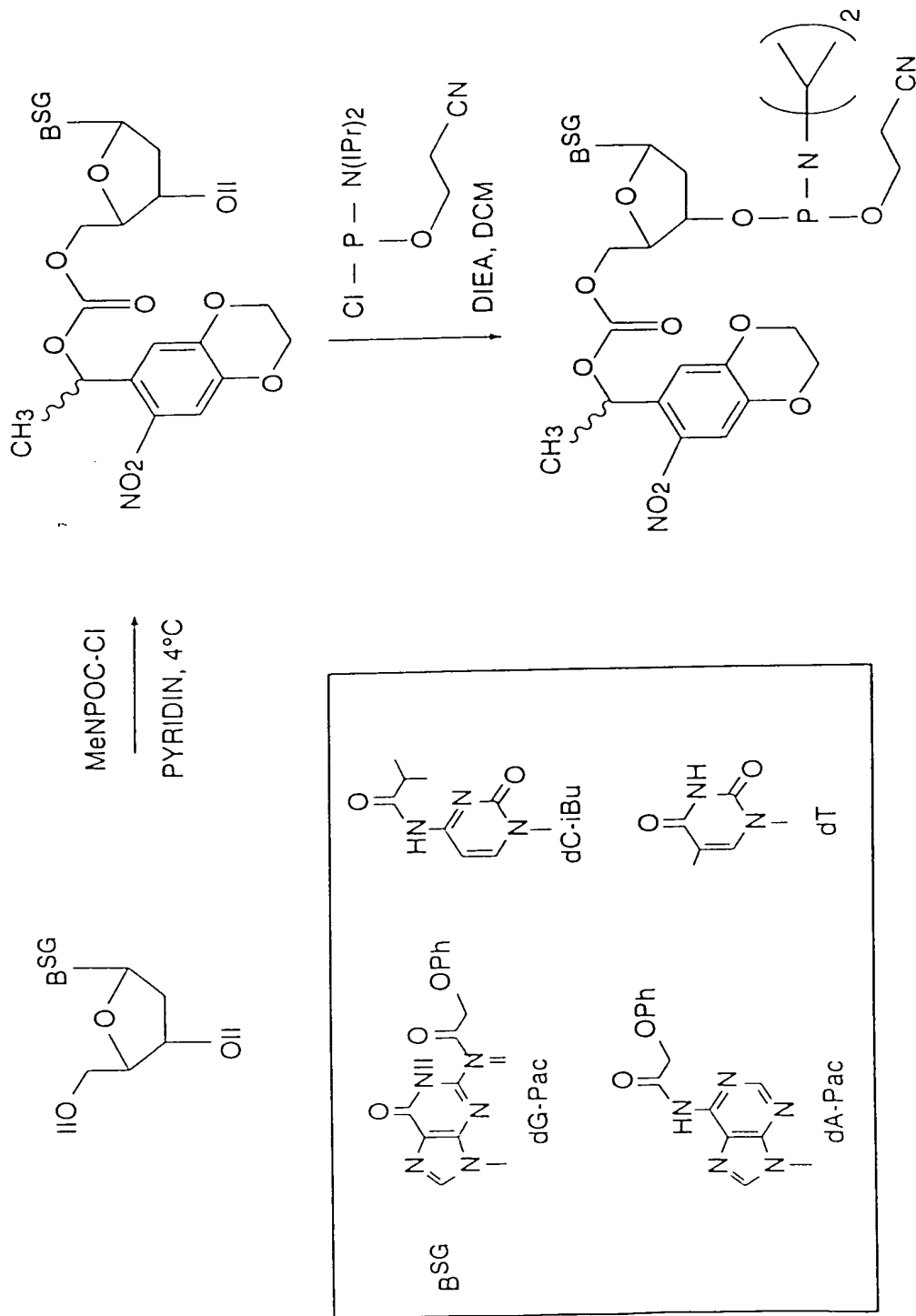


FIG. 25

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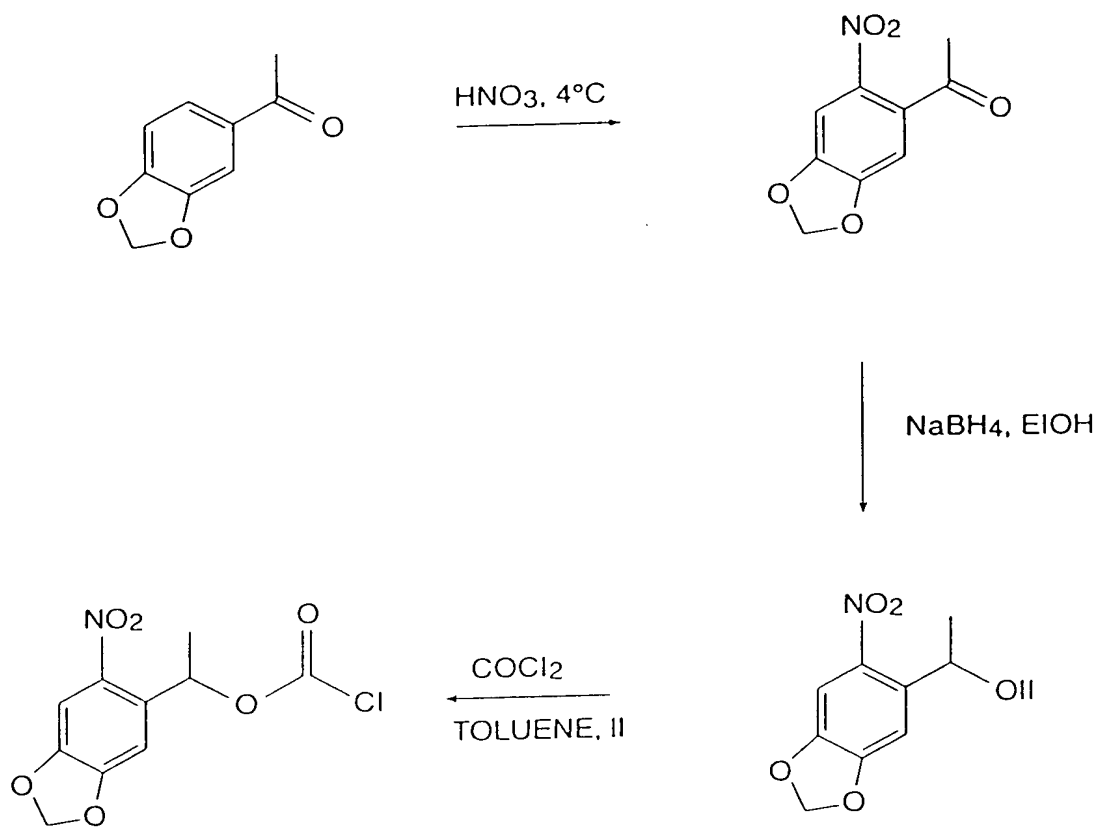
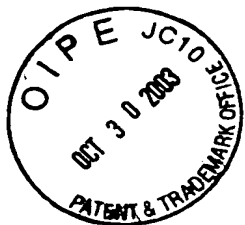


FIG. 26

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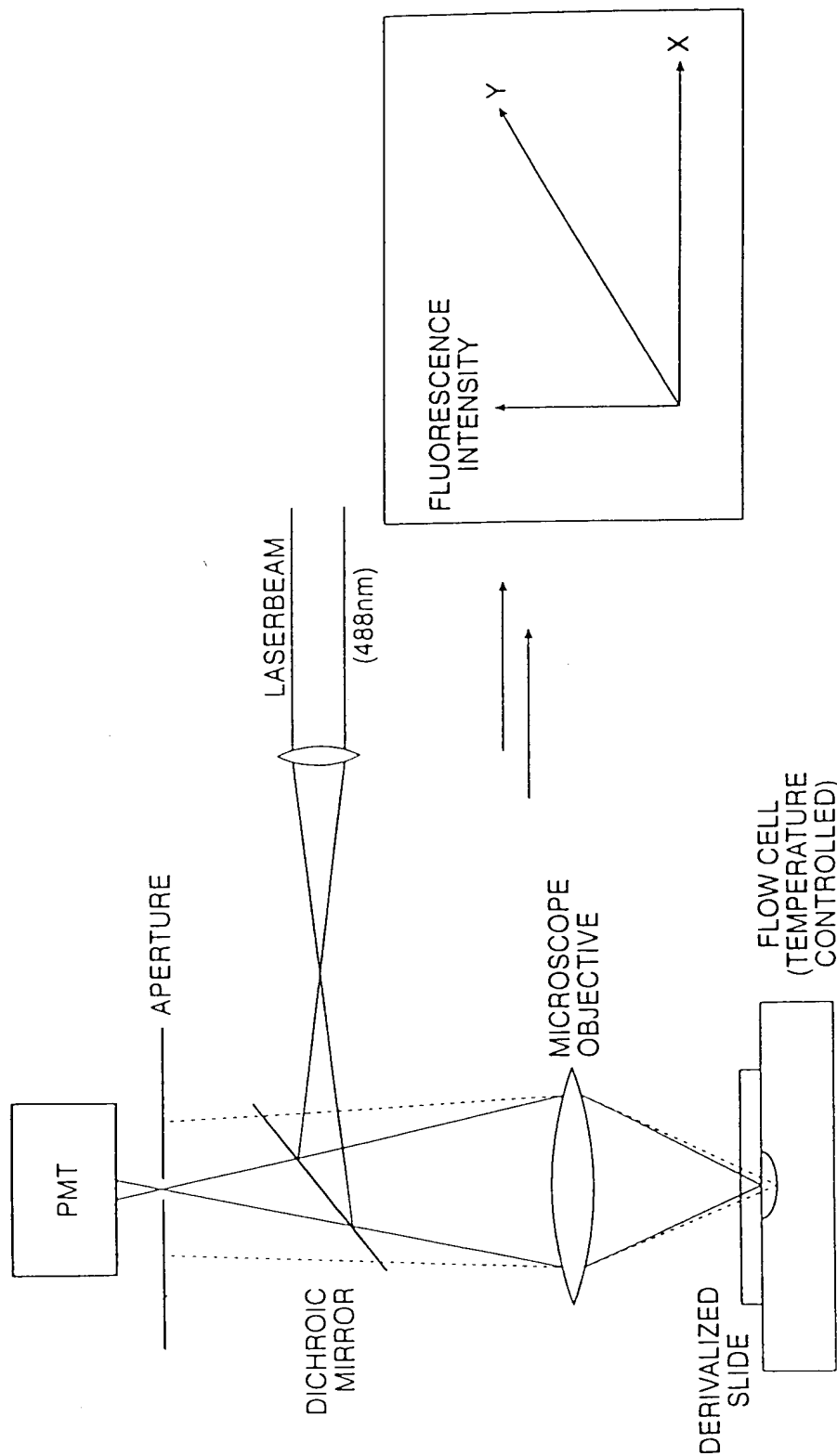
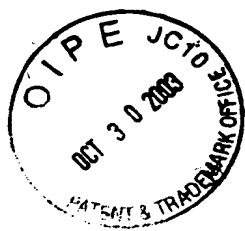


FIG. 27

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